Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	(PCT Article 36 and	Rule 10)		
	FOR FURTHER ACTION	SeeNotificati Examination	onofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)	
JST-79-PCT International application No. PCT/JP02/08114	International filing date (day) 08 August 2002 (08	month/year) .08.02)	Priority date (day/month/year) 01 February 2002 (01.02.02)	
International Patent Classification (IPC) or nat H01S 3/05	ional classification and IPC			
	ENCE AND TECHNOI			
2. This REPORT consists of a total of This report is also accompanamended and are the basis for 70.16 and Section 607 of the These annexes consist of a total of These annexes consist of These annexes consist of a total of These annexes consist of These	3 sheets, included by ANNEXES, i.e., sheets or this report and/or sheets contend of 1 sheets of 1 sheets at of 1 sheets at of opinion with regard to not nevention the supporting such states at a cited at the international applications on the international applications on the international applications.	s of the description of the description of the description of the PCT is. Divelty, inventive egard to novel terment	re step and industrial applicability by, inventive step or industrial applicability;	
Date of submission of the demand		Date of compl	etion of this report	
28 January 2003 (2	28.01.03)	25 August 2003 (25.08.2003)		
Name and mailing address of the IPEA	/JP	Authorized of	fficer	
Facsimile No.		Telephone N	0.	

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP02/08114

I. Basis of the report									
1. With regard to the elements of the international application:*									
	the inte	aternational application as originally filed							
\bowtie	the desc	escription:							
	pages		, as originally filed						
	pages		ed with the demand						
	pages	, filed with the letter of							
\boxtimes	the clair	aims:							
	pages		, as originally filed						
	pages	, as amended (together with any statement							
	pages		ed with the demand						
	pages .	, filed with the letter of 11 July 2003	(11.07.2003)						
	the drav	rawings:							
	pages		, as originally filed						
	pages								
	pages	, filed with the letter of							
1	the seque	nence listing part of the description:							
-	pages		, as originally filed						
	pages		ed with the demand						
	pages	, filed with the letter of	***************************************						
Thes	the lang the lang the lang or 55.3)		which is:						
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the preliminary examination was carried out on the basis of the sequence listing:									
H		ined in the international application in written form.							
H		together with the international application in computer readable form. shed subsequently to this Authority in written form.							
Ħ		thed subsequently to this Authority in written form. The subsequently to this Authority in computer readable form.							
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
	The sta	statement that the information recorded in computer readable form is identical to the written sec furnished.	quence listing has						
4. 🛛	The ame	mendments have resulted in the cancellation of:							
		the description, pages							
		the claims, Nos. 2-3							
	ti	the drawings, sheets/fig							
5.	This repo	eport has been established as if (some of) the amendments had not been made, since they have been the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	1 considered to go						
and 7	0.17).	sheets which have been furnished to the receiving Office in response to an invitation under Article rt as "originally filed" and are not annexed to this report since they do not contain amendn nent sheet containing such amendments must be referred to under item 1 and annexed to this report.	14 are referred to nents (Rule 70.16						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 02/08114

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
! !	Novelty (N)	Claims	1	YES			
		Claims		NO			
	Inventive step (IS)	Claims		YES			
		Claims	1	NO			
	Industrial applicability (IA)	Claims	1	YES			
		Claims	. 	NO			

2. Citations and explanations

Claim 1

Document 1: Ichiro Shoji et al., "(100)-cut no YAG
kesshou ni yoru netsu fukukussetsu yuuki
depolarization no teigen," Dai-62-kai ouyou
butsuri gakkai gakujutsu kouenkai yokoushuu,
1 September 2001, Vol. 3, page 799

Document 1 indicates that depolarization can be reduced in YAG crystals by selecting a plane other than the (111) plane as the direction of propagation of light.

A person skilled in the art could easily conceive of selecting the (110) plane as a plane other than the (111) plane, and thus, the invention described in claim one does not involve an inventive step.

CLAIMS

- 1. (Amended) A solid-state laser wherein the direction of beam propagation is selected to (110)-direction of a crystal belonging to equi-axis crystal system to reduce birefringence effects based on photoelastic effects due to centrosymmetrically induced stress.
 - 2. (Deleted)
 - 3. (Deleted)